RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text

Table 2. Reference table showing RelB linkage of L4 to RbR - RTM baseline 01-17-97

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
EOSD 0030# B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			C-CSS-02430	7251	B0	functional	approved		The CSS-DCHW CI Enterprise Communications Server tape drives shall be upgradeable/replaceable within the same product family.
								C-CSS-03030	7275	B0	functional	approved		The CSS-DCHW CI Local Communications Server tape drives shall be upgradeable/replaceable within the same product family.
								C-CSS-03420	7290	B0	functional	approved		The CSS-DCHW CI Bulletin Board Server data archive shall adhere to ECS data server archival requirements for data storage and retrieval.
								C-CSS-03500	7291	B0	functional	approved		The CSS-DCHW CI Bulletin Board Server peripherals shall support at least one tape drive.
								C-CSS-03510	7292	B0	functional	approved		The CSS-DCHW CI Bulletin Board Server peripheral tape drive shall have the following characteristics: a. 4mm Digital Audio Tape format b. Accept industry standard magnetic 4mm DAT (i.e. DDS-90)
								C-CSS-03520	7293	B0	performance	approved		The CSS-DCHW CI Bulletin Board Server shall provide a peripheral tape drive.
								C-CSS-03530	7294	B0	functional	approved		The CSS-DCHW CI Bulletin Board Server tape drives shall be upgradeable/replaceable within the same product family.
								C-MSS-03000	7504	B	functional	approved		The MSS-MHW CI Local Management Server peripherals shall support at least one tape drive.
								C-MSS-03030	7507	B	functional	approved		The MSS-MHW CI Local Management Server tape drives shall be upgradeable/replaceable within the same product family.
								S-INS-00785	8960	B0	interface	approved		The INGST CI shall ingest Data, provided by the Landsat 7 Image Assessment System (IAS), from the LAN into the EDC DAAC using a file transfer protocol.
								S-INS-00780	11790	A	interface	approved		The INGST CI shall ingest data, provided by the Landsat 7 Processing Facility (LPS), from the ESN into the EDC DAAC using a file transfer protocol.
								S-INS-00787	11813	B0	interface	approved		The INGST CI shall ingest Data, provided by the Landsat 7 International Ground Stations (IGSs), into the EDC DAAC on 8 mm cartridge tape.
EOSD 0030# B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-CLS-10010	8109	B1	functional	incremental		The WKBCH CI shall provide the capability for users to compose Search Requests based on product specific and core metadata attributes.
EOSD 0030# B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and			S-CLS-10220	10211	B	functional	incremental		The WKBCH CI shall allow users to formulate a Product Request based on the results of searching the inventory core metadata attributes and inventory product specific metadata attributes.

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
					browse) and related non-EOS data and products.									
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-IOS-00080	2801	A	functional	incremental		The ADSRV CI shall provide a capability to access Advertisements for ECS and non-ECS data and services.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-IOS-00690	10752	B1	functional	incremental		The ADSRV CI shall accept Search Requests in a format compatible with the Earth Science Query Language.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-DSS-00070	8710	B0	interface	approved		The SDSRV CI shall accept Service Requests from the Data Processing subsystem and, as a result, provide access to Data for the purpose of reprocessing.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-DSS-00115	8711	B1	functional	approved		The SDSRV CI shall accept Search Status Requests for a specified active Search Request and, if requested, provide all Search Results accumulated for that Search Request.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-DSS-00116	8712	B1	functional	approved		The SDSRV CI shall accept Search Status Requests for a specified active Search Request and, if requested, provide all Search Results accumulated since the last Search Status Request for that Search Request.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-DMS-00010	8334	B0	functional	incremental		The LIMGR CI shall provide capabilities to search and obtain data by science discipline.
EOSD 0030#B	3829	mission essential	SDPS	operational	ECS shall, during its lifetime, ingest, archive distribute and provide search and access for EOS TRMM, Landsat 7 (including IGS metadata and browse) and related non-EOS data and products.			S-DMS-00100	8343	B0	interface	incremental		The LIMGR CI shall accept search results from a Data Server, and provide capability, to integrate Search Results from a previous Search Request .
EOSD 0780#B	7112	mission fulfillment	FOS | SDPS | CSMS	functional	Each ECS element shall be capable of being monitored during testing.			C-MSS-60330	257	A	functional	approved		The MSS Fault Management Application Service at each site shall have the capability to perform periodic testing of all ECS communication links at that site to verify that they are operational.
								F-FOS-	970	B	functi			The EOC shall provide the capabilities:

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
								00098			onal			a. To test both nominal operations and failure paths b. To log test activities and test configuration c. To support analysis of test data and the generation of test results d. To maintain test procedures and test results
								F-RMS-00050	1315	A	functional		Identifying a logical string for operation, test or training mode will not constrain the use of that logical string. This identification merely serves notice to all potential users of the intended use for a given string.	The EOC shall allow EOC operators to identify EOC resources for test mode.
								S-INS-60190	4163	IR1	functional	agreed		The ICLHW CI shall have a status monitoring capability.
								S-DPS-60910	4716	IR1	functional	agreed		The SPRHW CI shall support test activities throughout the development phase.
								S-DPS-60970	4722	IR1	functional	agreed		The SPRHW CI shall be capable of being monitored during testing.
								S-DPS-61171	4732	IR1	functional	agreed		The SPRHW CI shall have provision for a dynamic analyzer to support the capability to check Science Software source code for memory leaks.
								S-DPS-70070	4742	IR1	functional	agreed		The AITHW CI shall have a status monitoring capability.
								C-MSS-56040	7786	B0	functional	approved		The MSS Mode Management Service shall have the capability to monitor each independently executing mode for performance statistics.
								C-MSS-56050	7787	B	functional	approved		The MSS Mode Management Service shall provide fault detection and isolation capabilities for each independently executing mode.
								C-MSS-56060	7788	B	functional	approved		The MSS Mode Management Service shall maintain a collection of management statistics for each mode supported.
								C-MSS-66121	7816	B0	functional	approved		The MSS performance management application service shall be capable of determining the operational state of all network components, hosts, and peripherals to be: a. on-line b. off-line c. in test mode d. In maintenance, e. in simulation mode.
								C-MSS-56082	10016	B0	functional	approved		The MSS Mode Management Service shall provide the capability to initiate a new mode of execution.
								C-MSS-60012	10026	B0	functional	approved		The MSS Fault Management Service shall provide fault detection and isolation capabilities for each mode.
								C-MSS-60014	10027	B0	functional	approved		The MSS Fault Management Service shall provide the capability to distinguish faults between different modes.

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
								C-MSS-60016	10028	B0	functional	approved		The MSS Fault Management Service shall maintain fault statistics for each mode.
								C-MSS-66002	10029	B0	functional	approved		The MSS Performance Management Applications Service shall have the capability to monitor each mode for performance statistics.
								C-MSS-66004	10030	B0	functional	approved		The MSS Performance Management Application Service shall provide the capability to distinguish performance metrics between different modes.
								C-MSS-66006	10031	B0	functional	approved		The MSS Performance Management Application Service shall maintain performance statistics for a given mode.
								C-MSS-60350	10735	A	operational	approved	Diagnostics initiated manually by M&O operators.	The MSS Fault Management Application Service shall have the capability to periodically execute diagnostic tests in order to isolate, characterize and identify a fault.
EOSD 0780#B	7112	mission fulfillment	FOS | SDPS | CSMS	functional	Each ECS element shall be capable of being monitored during testing.			C-MSS-56020	7784	B0	functional	approved		The MSS Mode Management Service shall support a test mode capability
EOSD 0800#B	7114	mission critical	FOS | SDPS | CSMS	functional	Each ECS element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.			F-FOS-00155	978	B	functional			The EOC shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
								F-RMS-00050	1315	A	functional		Identifying a logical string for operation, test or training mode will not constrain the use of that logical string. This identification merely serves notice to all potential users of the intended use for a given string.	The EOC shall allow EOC operators to identify EOC resources for test mode.
								S-INS-60640	4193	A	functional	approved		Each ICLHW CI element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
								S-PLS-61080	4348	A	functional	approved		The PLNHW CI shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
								S-DPS-60920	4717	A	functional	approved		The following testing shall be performed on the SPRHW CI: a. Unit testing b. Subsystem testing

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
														c. Integration & Testing d. End-to- End testing
								S-DPS-60950	4720	A	functional	approved		The SPRHW CI shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.
EOSD 0800#B	7114	mission critical	FOS | SDPS | CSMS	functional	Each ECS element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.			C-MSS-56070	9977	B0	functional	approved		The MSS Mode Management Service shall be capable of executing a test mode simultaneously with the production mode.
EOSD 1015#B	6506	mission critical	SDPS	performance	The DADS at each DAAC that receives instrument level 0 data from EDOS shall provide the capability to ingest and archive the data at a rate that is equivalent to 1.2 times the DAAC average level 0 input rate.									
EOSD 1015#B	6506	mission critical	SDPS	performance	The DADS at each DAAC that receives instrument level 0 data from EDOS shall provide the capability to ingest and archive the data at a rate that is equivalent to 1.2 times the DAAC average level 0 input rate.			S-INS-61010	9488	B0	performance	approved		The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the EDOS at a maximum daily rate that is three times the nominal rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
EOSD 1015#B	6506	mission critical	SDPS	performance	The DADS at each DAAC that receives instrument level 0 data from EDOS shall provide the capability to ingest and archive the data at a rate that is equivalent to 1.2 times the DAAC average level 0 input rate.			S-INS-61025	9490	B0	performance	approved		The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the EDOS at a maximum daily rate that is three times the nominal rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
EOSD 1720#B	6248	mission essential	SDPS	interface	ECS elements shall receive from the ECS user community the following types of data requests at a minimum: a. Data Acquisition Requests for the ASTER Instrument b. Data Distribution Requests c. Reprocessing Requests			S-DSS-30260	3836	A	functional	approved		The DDIST CI shall log the receipt of a Data Distribution Request in the Distribution Activity Log.
								S-DPS-60135	4682	A	evolvable	approved		The SPRHW CI design and implementation shall have the flexibility to accommodate Science Processing expansion up to a factor of 3 in its capacity with no changes in its design and up to a factor of 10 without major changes to its design.
								S-CLS-13250	8229	B0	functional	incremental		The WKBCH CI shall provide users the capability to view DAR generation information during the DAR planning and submittal process.

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text
								S-PLS-00070	9032	B1	functional	approved		The PLANG CI shall accept Production Requests for reprocessing of Data Products from currently available input data.
								S-DSS-30020	9143	A	functional	approved		Distribution Requests shall have the format described in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
								S-DSS-30030	9144	A	functional	approved		The DDIST CI shall validate each Electronic Distribution Request and verify that the format conforms to that specified in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
								S-DSS-30060	9145	A	functional	approved		The DDIST CI shall validate each Media Distribution Request and verify that it conforms to the format specified in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
								S-PLS-00010	10827	A	functional	approved	Time window refers to the coverage time of the data set	The PLANG CI shall accept Production Requests for running PGEs to generate specific Data Products with associated time windows that are to be routinely generated.
EOSD 1720#B	6248	mission essential	SDPS	interface	ECS elements shall receive from the ECS user community the following types of data requests at a minimum: a. Data Acquisition Requests for the ASTER Instrument b. Data Distribution Requests c. Reprocessing Requests			S-IOS-00855	9851	B0	functional			The ADSRV CI shall maintain ASTER DAR parameters and DAR parameter constraints as specified in the service advertisement for the DAR services.
EOSD 5230#B	3944	mission fulfillment	SDPS | CSMS	evolvable	ECS shall enable the addition of new data types similar to previous types with minimal changes to the software of the core system.									
EOSD 5230#B	3944	mission fulfillment	SDPS | CSMS	evolvable	ECS shall enable the addition of new data types similar to previous types with minimal changes to the software of the core system.			S-DSS-02500	11259	A	functional	approved		The SDSRV CI shall provide the capability to define new Earth Science Data Types.

Table 3 Link Change Table RbR to Existing L4

RBR_id	L4 Req_id
EOSD0030#B	S-CLS-10010
EOSD0030#B	S-CLS-10220

RBR_id	req_key	req_category	segment	req_type	text	interpretation text	clarification	L4 id	req_key	rel	req_type	req_status	clarification	text

EOSD0030#B	S-IOS-00080
EOSD0030#B	S-IOS-00690
EOSD0030#B	S-DSS-00070
EOSD0030#B	S-DSS-00115
EOSD0030#B	S-DSS-00116
EOSD0030#B	S-DMS-00010
EOSD0030#B	S-DMS-00100
EOSD0780#B	C-MSS-56020
EOSD0800#B	C-MSS-56070
EOSD1015#B	S-INS-61010
EOSD1015#B	S-INS-61025
EOSD1720#B	S-IOS-00855
EOSD5230#B	S-DSS-02500